Kevin Shilling

DEC 0 2 2008

Department of Environmental Quality State Air Program

Re: Clemet's Concrete Permit to construct Application

Dear Mr. Shilling

Please Find attached a coy of the Clements concrete permit to construct application to a portable concrete batching plant outside of Notus Idaho.

Clements Concrete requests that Spidell and Associates be informed if this application will need an air quality model or if the application will be processed as outlined using the new streamlined procedurals.

You can contact spidell and Associates at 2403 Spaulding Boise Idaho 83705 or at (208) 336-4862.

Sincerely

Jesse Sears

SPIDELL AND ASSOCIATES

CC: Mike Matzdorf Vice President

Clements Concrete Company

Portable Cement Plant Permit to Construct Application

Clements Concrete Company, INC.

1979 Ross Rustler 160 S/N Ru-198

Prepared For:

Mike Matzdorf

Vice President

Clements Concrete Company, INC.

10988 Joplin Road Boise, Idaho 83714 Phone: (208) 939-2000 Fax: (208) 939-7056

Prepared By:

Spidell and Associates

2403 Spalding St. Boise ID 83705

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Introduction:

This Application is being submitted to obtain a Permit to construct a potential concrete batching plant near Notus Idaho.

The Application is arranged as outlined on the Table of Contents. A description of the facility and an emission estimate are contained in the narrative sections. A location map, plan map, process diagram, and all IDEQ forms are included in the Appendixes.

The purposed plant is a portal concrete batching plant manufactured in 1979 by Ross and is a module Rustler 160 Cu Yd owned by Clements Concrete Company, INC.

The applicant has signed all the required IDEQ forms and the Certification found in the Appendixes.

Purpose:

The permit Application is being submitted by Clements Concrete Company, INC to satisfy the requirements of IDAPA 58.01.01.200 for the construction of a concrete batching plant.

Facility Description:

The portable concrete batching plant will be located E of Notus Road 1/2 mile on Dixie River Road in Section 2, T4N, R4E. The Plortable plant is a 1979 Ross Rustler 160 owned by Clements Concrete Company, INC.A location map and a scaled plan map are included as figures 1 and 2.

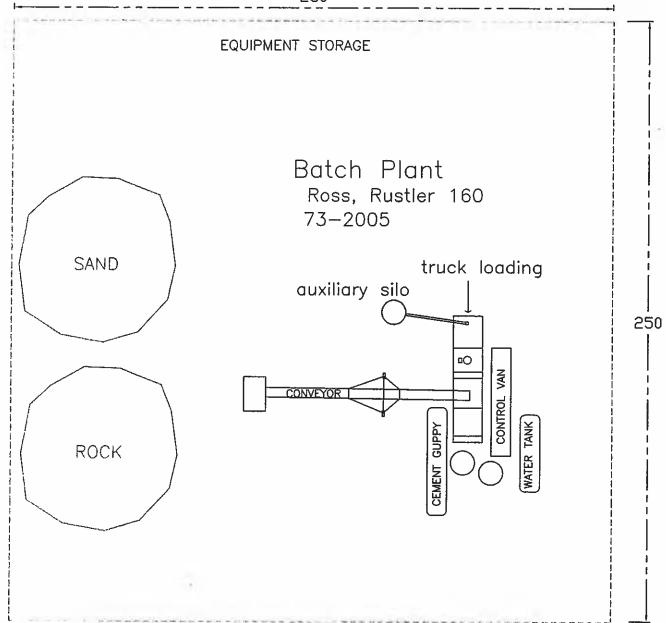
Equipment Listing:

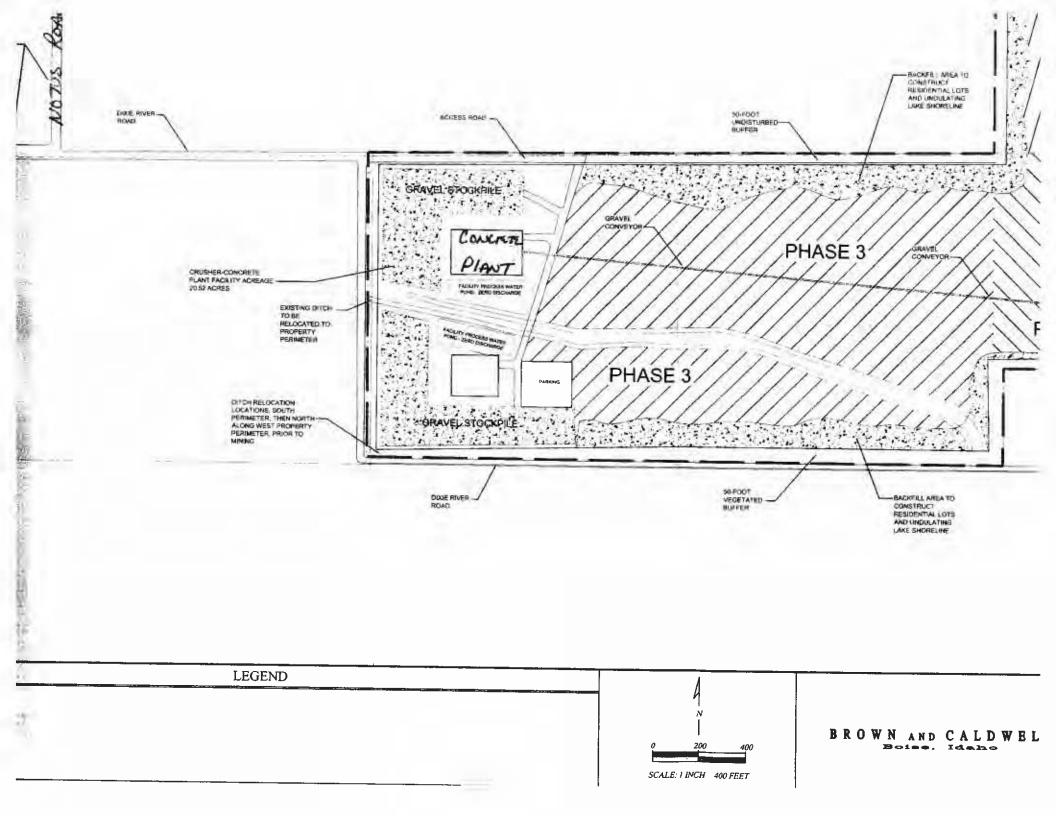
The facility is portable concrete batching plant manufactured by Ross. It's make is a Rustler 160 and was made in 1979. The major components of the plant are:

- 3 aggregate bins with bin cover
- 1 auxiliary silo with auger feed
- 1 radial stacker feed belt with feed hopper
- control van with Grace admixture system, NATCO 290 boiler, misc. water pumps and a 700 gallon saddle fuel tank (boiler).
- 1 12,000 gallon skid mounted, insulated water tank
- 1 Fruehauf 4100cf guppy with gasoline powered pneumatic blower

A diagram of the facility is included as figure 2, and a photo of the area is included in figure 1.

Emissions will be controlled by bag houses on auxiliary silo, cement guppy, and weigh batcher.







Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

		IDENTIFICATION
1.	Company Name	Clements Concrete Company INC
2.	Facility Name (if different than #1)	Notus
3.	Facility ID No.	73-2005
4.	Brief Project Description:	The construction of a 1979 Ross Rustler 160 portable cement plant near Notus
		FACILITY INFORMATION
5.	Owned/operated by: (√ if applicable)	☐ Federal government ☐ County government ☐ City government ☐ City government
6.	Primary Facility Permit Contact Person/Title	Mike Matzdorff
7.	Telephone Number and Email Address	(208) 939-2000 mmatxdorff@clydeinc.com
8.	Alternate Facility Contact Person/Title	
9.	Telephone Number and Email Address	
10.	Address to which permit should be sent	10988 Joplin Road
11.	City/State/Zip	Boise ID 83714
12.	Equipment Location Address (if different than #10)	E of Notus Road ½ mile on Dixie River Road in Section 2, T4N, R4E
13.	City/State/Zip	Notus ID
14.	Is the Equipment Portable?	⊠ Yes □ No
15.	SIC Code(s) and NAICS Code	Primary SIC: RU-196 Secondary SIC (if any): NAICS:
16.	Brief Business Description and Principal Product	Portable Cement Bating plant
17.	Identify any adjacent or contiguous facility that this company owns and/or operates	Facility Id 001-00184 in Boise Id
		PERMIT APPLICATION TYPE
18.	Specify Reason for Application	 ☑ Permit to Construct ☐ Tier I Permit ☐ Tier II Permit ☐ Tier II/Permit to Construct
		CERTIFICATION
li	•	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.
19.	Responsible Official's Name/Title	Mike Matzdorff Vice President
20.	RESPONSIBLE OFFICIAL SIGNATURE	Date: 12-2-05
21.	☐ Check here to indicate you would like	to review a draft permit prior to final issuance
	· · · · · · · · · · · · · · · · · · ·	



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

Cover Sheet for Air Permit Application – Permit to Construct Form CSPTC

Revision 5 08/28/08

Please see instructions on page 2 before filling out the form.

		COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Compan	y Name	Clements Concrete Company INC			
2. Facility Name Notus 3. Facility ID No. 73-2005					
4. Brief Pr					
One senter	nce or less	PERMIT APPLICATION TYPE			
5. X New	Source	New Source at Existing Facility PTC for a Tier I Source Processed Pursuant to IDAPA 58.01.01.209.05.c			
		xisting Source Facility Emissions Cap Modify Existing Source: Permit No.: Date Issued:			
6. Mine		nforcement Action: Case No.:			
V.	0.110	FORMS INCLUDED			
Included	N/A	Forms	DEQ		
			Verify		
		Form CSPTC - Cover Sheet			
		Form GI – Facility Information			
		Form EU0 – Emissions Units General			
		Form EU1- Industrial Engine Information Please specify number of EU1s attached:			
		Form EU2- Nonmetallic Mineral Processing Plants Please specify number of EU2s attached:			
		Form EU3 Spray Paint Booth Information Please specify number of EU3s attached:			
		Form EU4- Cooling Tower Information Please specify number of EU3s attached:			
		Form EU5 – Boiler Information Please specify number of EU4s attached:			
		Form CBP- Concrete Batch Plant Please specify number of CBPs attached:			
		Form HMAP Hot Mix Asphalt Plant Please specify number of HMAPs attached:			
		PERF Portable Equipment Relocation Form			
		Form AO – Afterburner/Oxidizer			
		Form CA – Carbon Adsorber			
		Form CYS – Cyclone Separator			
		Form ESP – Electrostatic Precipitator			
		Form BCE- Baghouses Control Equipment			
		Form SCE Scrubbers Control Equipment			
		Form VSCE – Venturi Scrubber Control Equipment			
		Form CAM Compliance Assurance Monitoring			
\boxtimes		Forms EI-CP1 - EI-CP4— Emissions Inventory— criteria pollutants (Excel workbook, all 4 worksheets)			
\boxtimes		PP – Plot Plan			
		Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)			
\boxtimes		Form FRA – Federal Regulation Applicability			

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Concrete Batch Plant Form CBP

Revision 6 08/28/08

Please see instructions on page 3 before filling out the form.

		IDENTIFI	CATION				
1. Company Name:		2. Facility Name:	SATION	3. Facility ID N	ło-		
	la Campani, INC	1 1		73-2005			
Clements Concret	e Company, INC.	Notus		73-200			
4. Brief Project Descripti	ion:	of a 1979 Ross Rustler	160 Portable Ceme	ent Plant	in No	tus	
5. Proposed Initial Plant Location:	F of Notus Ro	oad ½ mile on Dixie River Road	l in Section 2. T4N. R4E				
6. Nearest City:	Notus						
7. County:	Canyon		8. Estimated Startup Date:	March 2009			
9. Reason for Application:	X☐ Permit to constr ☐ Permit to operate	an existing unpermitted source revise an existing permitted so :		elow)			
10. Review draft request.	☐ Check here to in	dicate you would like to review	a draft permit prior to final	issuance.			
Concrete Batch F	Plant						
11. Manufacturer:	Ross		12. Model:	Rustler 160	<u>.</u>		
13. Manufacture Date:	1979						
14. Maximum Hourly Th	roughput:	160 (cy/hour)					
15. Maximum Daily Thro		3840 (cy/day)					
16. Maximum Annual Ti	nroughput:	798,720 (cy/year)					
	nroughput:						
16. Maximum Annual Ti	hroughput: Fhroughput:	798,720 (cy/year) 400,000 (cy/year)					
16. Maximum Annual Ti 17. Requested Annual T	hroughput: Fhroughput:	798,720 (cy/year) 400,000 (cy/year)	19a. Model:	Rustler 160			
16. Maximum Annual TI 17. Requested Annual T Cement Storage	nroughput: Throughput: Silo Baghouse N Ross	798,720 (cy/year) 400,000 (cy/year)	19a. Model: 21b. Exit Air Flow F		4,000	(acfm)
16. Maximum Annual TI 17. Requested Annual TI Cement Storage 18a. Manufacturer:	nroughput: Throughput: Silo Baghouse N Ross Ground:	798,720 (cy/year) 400,000 (cy/year)		Rate:	4,000 99.99)
16. Maximum Annual Ti 17. Requested Annual T Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra	nroughput: [Throughput: Silo Baghouse Noss Ground: eter:	798,720 (cy/year) 400,000 (cy/year) No. 1 40 (ft) 12 (ft)	21b. Exit Air Flow F	Rate:)
16. Maximum Annual Ti 17. Requested Annual T Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: ain Loading	798,720 (cy/year) 400,000 (cy/year) No. 1 40 (ft) 12 (ft) 0.01 sn/dsut	21b. Exit Air Flow F	Rate:)
16. Maximum Annual Ti 17. Requested Annual T Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra Guarantee:	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: ain Loading PM ₁₀ control efficiency	798,720 (cy/year) 400,000 (cy/year) 40 (ft) 12 (ft) 0.01 sn/dsut y guarantee, if available.	21b. Exit Air Flow F	Rate:)
16. Maximum Annual Ti 17. Requested Annual Ti Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra Guarantee: * Attach manufacturer's	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: ain Loading PM ₁₀ control efficiency	798,720 (cy/year) 400,000 (cy/year) 40 (ft) 12 (ft) 0.01 sn/dsut y guarantee, if available.	21b. Exit Air Flow F	Rate:)
16. Maximum Annual Ti 17. Requested Annual Ti Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra Guarantee: * Attach manufacturer's Cement Storage 18b. Manufacturer:	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: ain Loading PM ₁₀ control efficiency Silo Baghouse N Ross	798,720 (cy/year) 400,000 (cy/year) 40 (ft) 12 (ft) 0.01 sn/dsut y guarantee, if available.	21b. Exit Air Flow F 23a. * PM ₁₀ Control	Rate: I Efficiency: Rustler 160) (acfm)
16. Maximum Annual Ti 17. Requested Annual Ti Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra Guarantee: * Attach manufacturer's Cement Storage	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: hin Loading PM ₁₀ control efficiency Silo Baghouse N Ross Ground:	798,720 (cy/year) 400,000 (cy/year) 40 (ft) 12 (ft) 0.01 sn/dsut y guarantee, if available. 40. 2 guppies	21b. Exit Air Flow F 23a. * PM ₁₀ Control	Rate: I Efficiency: Rustler 160 Rate:	99.99	(%)	
16. Maximum Annual Ti 17. Requested Annual Ti Cement Storage 18a. Manufacturer: 20a. Stack Height from 22a. Stack Inside Diame 24a. * Manufacturer Gra Guarantee: * Attach manufacturer's Cement Storage 18b. Manufacturer: 20b. Stack Height from	nroughput: Throughput: Silo Baghouse N Ross Ground: eter: ain Loading PM ₁₀ control efficiency Silo Baghouse N Ross Ground: eter:	798,720 (cy/year) 400,000 (cy/year) 40 (ft) 12 (ft) 0.01 sn/dsut y guarantee, if available. 40. 2 guppies (ft)	21b. Exit Air Flow F 23a. * PM ₁₀ Control 19b. Model: 21b. Exit Air Flow F	Rate: I Efficiency: Rustler 160 Rate:	99.99 4,000	(%)	

Cement Supplement (such as flyash) Storage Silo Baghouse No.

18c. Manufacturer:		19c. Model:			
20c. Stack Height from Ground:	(ft)	21c. Exit Air Flow Rate:	(acfm)		
22c. Stack Inside Diameter: (ft)		23c. * PM ₁₀ Control Efficiency:	(%)		
24c. * Manufacturer Grain Loading Guarantee:					
* Attach manufacturer's PM ₁₀ control efficient	* Attach manufacturer's PM ₁₀ control efficiency if available.				

Cement Supplement (such as flyash) Storage Silo Baghouse No.

18d. Manufacturer:		19d. Model:				
20d. Stack Height from Ground:	(ft)	21d. Exit Air Flow Rate:	(acfm)			
22d. Stack Inside Diameter:	(ft)	23d. * PM ₁₀ Control Efficiency:	(%)			
24d. * Manufacturer Grain Loading Guarantee:						
Attach manufacturer's PM ₁₀ control efficiency if available.						

Weigh Batcher Baghouse(s)

18e. Manufacturer:	Ross	19e. Model: Rustler 160			
20e. Stack Height from G	round: 40 (ft)	21e. Exit Air Flow Rate: 4000	(acfm)		
22e. Stack Inside Diamete	er: 12 (ft)	23e. * PM ₁₀ Control Efficiency: 99.99	(%)		
24e. * Manufacturer Grain	Loading				
Guarantee:	0.01				
* Attach manufacturer's PM ₁₀ control efficiency if available.					

\$1,000 PTC application fee is enclosed
A Portable Equipment Relocation Form (PERF) is enclosed.

Portable Equipment Relocation Form. Complete the Portable Equipment Relocation Form (PERF). An electronic copy of the PERF can be obtained from the DEQ website at www.deq.idaho.gov/air/permits_forms/forms/ptc_relocation.doc for Word format). **Important note:** In addition to being submitted with this PTC application, a PERF must also be completed and filed at DEQ at least 10 days in advance of relocating any of the equipment covered in this application.

Certification of Truth, Accuracy, and Completeness (by Responsible Official, as defined in IDAPA 58.01.01.006) I hereby certify that based on information and belief formed after reasonable inquiry, the statements and information contained in this and any attached and/or referenced document(s) are true, accurate, and complete in accordance with IDAPA 58.01.01.123-124.

sponsible Official Signature Responsible Official Title

Print or Type Responsible Official Name

AIR DISPERSION MODELING PROTOCOL: REQUEST TO USE DEQ GENERIC MODELING RESULTS TO DEMONSTRATE PRECONSTRUCTION COMPLIANCE WITH IDAHO AIR QUALITY RULES.

Proposed Project: Portable Concrete Batch Plant,	<u> 160 </u>	cy/HR _	<u>400000</u>	cy/YR
Location: (if portable, identify initial location)	E of Notus I	Road ½ mile on Dix	ie River Road in	Section 2, T4N, R4E
1) An emissions inventory (EI) based on the plant	's canacity	and proposed	maximum dai	ily and annual

- a. Emissions will be calculated using AP-42 emission factors and good engineering judgment.
- b. Fugitive emissions sources will be included in the EI, except for emissions resulting from vehicle traffic and wind erosion from storage piles.
- c. The level of emissions control assumed for each source will be clearly specified.

operations will be included with the application, and will comply with the following:

- d. Cr+6 will be presumed to comprise 20% of the total chromium emissions from cement silo filling, and 30% of the total chromium emissions from cement supplement (flyash) silo filling.
- 2) The proposed project will meet all of the criteria specified below, and agrees to accept permit conditions requiring continuing compliance with the physical parameters and setback distance(s) described in Table 1. is requesting that the DEQ generic model results be used to demonstrate preconstruction compliance with NAAQS and TAPs for this project. No additional modeling analysis will be submitted for this project.

Table 1. CRITERIA FOR USING DEQ'S CONCRETE BATCH PLANT GENERIC MODELING RESULTS FOR AIR IMPACT ANALYSES

Parameter	DEO	Generic Mod			Proposed Project
Concrete batch plant type and capacity	Truck mix (redi-mix or dry mix) or Central mix			Central mix	
Operation in any PM ₁₀ nonattainment area		Not pr	oposed.		No
Presence of an electric generator.	No g	enerator. Line	power is av	ailable.	Line Power is available
No Collocation. Minimum distance from nearest edge of any emissions source to any other source of emissions, including another concrete batch plant, hot mix asphalt plant, or rock crushing plant.	200 meters (656 feet)			200 metere	
Number of cement and/or cement supplement storage silos 1					missions are from the same point, and en storage silos.
Maximum daily concrete production (cy/day)	1,500	2,400	3,600	4,800	2400
Minimum Setback Distance. Minimum distance from nearest edge of any emissions source to a receptor.	40 m (131 ft)	60 m (197 ft)	100 m (328 ft)	150 m (492 ft)	60 m
Maximum annual concrete production (cy/year)	300,000	400,000	500,000	500,000	400000
Cement and supplement storage silo baghouse(s) Minimum stack height (height above ground) Minimum PM/PM ₁₀ control	10 meters (32.8 ft) 99%		10 meters 99%		
Weigh hopper loading baghouse, or equivalent Minimum stack height (height above ground) Minimum PM/PM ₁₀ control	10 meters (32.8 ft) 99%		10 meters 99%		
Truck-mix loadout or Central Mix loading. Minimum PM/PM ₁₀ control.	95% Boot enclosure, shroud, water sprays, or baghouse/cartridge filter			95% Boot Enclosure	
<u>Transfer Point Fugitives.</u> Minimum PM/PM ₁₀ control.	aggreg	75 or sprays, encluder ate/sand is datused before s	mp on an as-	received	Aggregate/ Sand is damp

Mike Matzdorf	Clements Concrete	208 939 2000
Print Name	Company	Telephone/E-mail
total	U.P.	12708
Signature	Title/Position	Date

CRITERIA POLLUTANT	EMISSION INVENTORY for	r Truck Mix Portabl	e Concrete Batch Plant

							ncrete Batch Pla		
Facility Information									12/2/08 11.50
Company: Facility ID:	Clement 73-200	s Concrete Cor	npany, INC			Assumptio	ns Implied or State	d in Applica	tion:
Permit No.:	P-200x					See control a	ssumptions		
Source Type:		Concrete Batch	Plant						_
Manufacturen/Model:		stlor 160				or Central Mix (C)?	С		
INCREASE IN Production ¹									
Maxim	um Hourly P	roduction Rale:	160	cy/hr		Per manufact	urer		
Prop	osed Daily P	roduction Rate:	2,400	cy/day	15.00	Hours of oper	ation per day at max ca	pacity	
Proposed Maximo	um Annual P	roduction Rate:	400,000	cy/year		ľ			
· · · · · · · · · · · · · · · · · · ·						ŀ	DEQ EI VERIFICA	TION WORK	SHEET v. 032007
Ce	ment Storag	e Silo Capacity:	4540	R3 of aerated	cement]	Tip: Purple text or nur	nbers are mea	nt to be changed,
Cement Storage Silo Large Compartme			65%	of the silo ca]			ard-wired or calculated.
Cement Storage Silo small Compartment	Capacity for	cement or ash:	35%	of the silo ca	pacity	l	Review these before y	ou change the	m
Change in PM ₁₀ Emissions due to this PTC	·								
Emissions Point		ssion Factor ¹ b/cy)	Controlled Emission Rate, Max.		mission Rate, average	Controlled E	mission Rate, annual average		
i	Controlled	Uncontrolled	lb/hr ²	lb/hr ³	lb/dav ³	lb/hr ⁴	T/yr ⁴	Control At	sumptions:
Aggregate delivery to ground storage	·	0.0031	0.12	0.078	1.86	0.035	0.155	75%	Water Sprays at Operator's Discretion
Sand delivery to ground storage		0.0007	0.03	0.018	0.42	0.008	0.035	75%	Water Sprays at Operator's Discretion
Aggregate transfer to conveyor		0.0031	0.12	0.078	1.86	0.035	0.155	75%	Water Sprays at Operator's Discretion
Sand transfer to conveyor		0.0007	0.03	0.018	0.42	0.008	0.035	75%	Water Sprays at Operator's Discretion
Aggregate transfer to elevated storage		0,0031	0.12	0.078	1.86	0.035	0.155	75%	Water Sprays at Operator's Discretion
Sand transfer to elevated storage		0.0007	0.03	0.018	0.42	0.008	0.035	75%	Water Sprays at Operator's Discretion
Cement delivery to Silo (controlled EF)	0.0001		1.34E-02	8.35E-03	2.00E-01	3.81E-03	1.67E-02	0.00%	Baghouse is process equipment
Cement supplement delivery to Silo (controlled EF)	0.0002		2.86E-02	1.79E-02	4.29E-01	8.16E-03	3.58E-02	0.00%	Baghouse is process equipment
Weigh hopper loading (sand & aggregate batcher loading)		0.0040	6.32€-04	3.95E-04	9.48E-03	1.80E-04	7.90E-04	99.9%	Baghouse control
Truck mix loading,Table 11.12-2, "0.278 tb/ton of cement+flyash" x ((491 lb cement + 73 lb flyash)/cy concrete) / 2000 lb ≃ 0.0784 tb/cy		0.0000	0.00	0.00	_0.00	0.00	0.00	99.9%	Baghouse control
1					·				
Point Sources Total Emissions		4.20E-02	6.09E+00	3.81E+00	9.14E+01	1.74E+00	7.61E+00	-	
Process Fugitive Emissions		0.0114	0.46	0.29	6.85	0.13	0.57		
Facility Wide Total: Point Sources + Process Fugitives (Except for Road Dust and Windblown Dust)		0.0534	6.55	4.09	98.21	1.87	8.18		
POINT SOURCE EMISSIONS for FACILITY CLASS	FICATION	Controlled EF	at	1,401,600	су/уг		T <i>i</i> yr		
Facility Classification Total PM ⁸		8.40E-03					5.89E+00		
Facility Classification Total PM10 ^{5,7}		4.21E-03				i	2.95E+00		

⁷ Emissions for Facility Classification do not include truck mix loading emissions; this is typically considered a fugitive emission source for concrete batch plants.

3,640 cy/day, and

1,401,600 cy/yr

Lead emissions	1		Increase	in Emissio	ns from this	PTC		- E7874 ·
Emissions Point		ssion Factor ¹ aterial loaded)	Emission Rate, Max.	with DEC	r Comparison Modeling shold	Emission Rate, Quarterly	Emissions for Facility Classification	
	Controlled with fabric	Uncontrolled	lib/hr, 1-hr evg. ²	lb/month ³	T/yr ⁴	lb/hr qtrly avg ⁵		T/yr
Cement delivery to silo 2	1.09E-08	155	4.28E-07	1.95E-04	1.07E-03	2.68E-07	Point Source	1.88E-06
Cement supplement delivery to Silo 3	5.20E-07		3.04E-06	1.39E-03	7.59E-03	1.90E-06	Point Source	1.33E-05
Truck Loadout (with 99.9% control) 7		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Fugitive	
Total			2.07E-05	9.44E-03	0.052		Point Sources	1.52E-05
DEQ Modeling Threshold				100	0.6			
Modeling Required?				No	No			

supplement, and 20 gallons of water = 4024 lb/cy), and closely match Table 11.12-5 values (version 6/06) when rounded to the same number of figures. AP-42 lists the same EFs for uncontrolled and controlled emissions, so control estimates are based on the assumed control levels input on the right hand side of the table.

2 Max. hourly rate includes reductions associated with control assumptions.

³ Hourly emissions rate (24-hr average) = Max.hourly emissions rate x (hrs per day) / 24.

Daily emissions rate = max emissions rate (1-hr average) x proposed hrs/day.

⁴ Annual average hourly emissions rate = EF (lb/cy) x proposed annual production rate (cy/yr) / (8760 hr/yr).

Annual emissions rate = EF (tb/cy) x proposed annual production rate (cy/yr) /(2000 lb/T)

⁵Controlled EFs for PM = 0.0002 (cement silo) + 0.0003 (flyash silo) +0.0079(weigh batcher) for PM10 = 0.0001 (cement sile) + 0.0002 (flyash sile) +0.0040 (weigh batcher)

⁶ Emissions for Facility Classification are based on baghouses as process equipment, 24-hr day, 8760 hr/yr =

The emissions factors are from AP-42, Table 11.12-8 (version 06/06)

Max. hourly rate = EF x pound of cement/yd³ of concrete x max. hourly concrete production rate/(2000 lb/T)

lb/mo = EF x pound of material/yd³ of concrete x max. daily concrete production rate x (365/12)/(2000 lb/T)

T/yr = EF x pound of material/yd3 of concrete x max. annual concrete production rate/(2000 lb/T)

b/hr, qtrly avg = lb/mo x 3 months per qtr / (8760/4)hrs per qtr

acility Informatio	מס		imates are bas ing compositio			Table 11.12-8 (version 06/06) rete:
		Coarse				
Company:	Clements Concrete Company, INC	aggregate		1885	pounds	
Facility ID:	73-2005	Sand		1428	pounds	
Permit No.:	P-200x.xxxxx	Cement		491	pounds	
		Cement				
Source Type:	Portable Concrete Batch Plant	aupplement		73	pounds	
Manufacturer:	Ross Rustlor 160	Water		20	galions	
		 Concrete		4024	pounds	

Truck Mix Loadout Factor: 0
Central Mix Batching Factor: 1

DEQ EI VERIFICATION WORKSHEET Version 032007 Tip: Purple text or numbers are meant to be changed. Black text or numbers indicates it's hard-wired or calculated. Review these before you change them.

increase in Production Uncontrolled (Unlimited Production Rate)

Maximum Hourly Production Rate:	160	cy/hr	
Proposed Daily Production Rate:	2,400	cylday	
Proposed Maximum Annual Production Rate:	400,000	cy/year	

24 hra/day, 3,840 cy/day 7 day/v/k, 1,401,600 cy/year 52 wks/year

TAP Emission Factors from AP-42, Table 11.12-8 (Version 06/06)

	Areenic	EE	Berylliu	m CE	Cadmiu	m EE	Cheeres	lum EF	Manganes	. CC	Nickel	CE	Phosph	noue EC	Colon	um EF	
Emissions Point	(lb/ton of mate		(ib/ton of mat		(lb/ton of mate		(lb/ton of ma		(lb/ton of materi	_	(lb/ton of mate		(lb/ton of mat			terial loaded)	Chromium VI
Enteriors Form	Controlled with Febrio filter	Uncontrolled	Controlled with Febric filter	Uncontrolled	Controlled with Fabric filter	Uncontrolled	Controlled with Fabric filter	Uncontrolled	Controlled with Fabric	Uncontrolled	Controlled with Febric filter	Uncontrolled	Controlled with Fabric filter	Uncontrolled	Controlled with Febric filter	Uncontrolled	Percent of total C that is Cr+6
Cement delivery to slip (with baghouse)	4.24E-09	Youk da	4.86E-10	F3	4.86E-10	14.0	2.90E-08	- 1	1.17E-07	=0.90%	4.18E-08	1.41 10	1941	1.18E-05	721/-	ým.	20%
Coment supplement delivery to Slio (with baghouse)	1.00E-06	200	9.04E-08	40	1.98E-08	325	1.22E-06	40	2.56E-07	-16	2.28E-06	261	3.54E-06	141-	7.24E-08	140	30%
Truck Loadout (no bool or shroud)	(1810-16)	0.00E+00		0.00E+00	334(1)	0.00E+00	#655-49	0.00E+00	1844000	0.00E+00	566,986	0.00E+00	HERMAN	0.00E+00	34732760	0.00E+00	21.29%
Central Mix Batching NO boot or shroud)	160 -	2.32E-07	40.	1.44	14-14	1.18E-08	HYeni	1.42E-06	149.24	6.12E-05	246.00	3.28E-06	136.16	2.02E-05	-10	1/1	21.29%

	1				uses as proce	or oderbin	10116		0,040	cy/day, and	"	1,401,600	· • • • • • • • • • • • • • • • • • • •				
Emissions Point	Arsenic		Beryllium		Cadmium		Chromium		Manganese		Nickel		Phosphorus		Selenium		Chromium VI
	lb/hr ennuel evg.	T/yr ⁴	lb/hr ennuel evo	T/yr	ib/hr ennuel evg.	Tlyt	lb/hr 24-hr evg.	T/yr ⁸	lb/hr 24-hr evg.	T/yr	lb/hr annual avg.	T/yr	1b/hr 24-hr evg.	T/yr	lb/hr 24-hr evg.	T/yr	lb/hr ennuat evg
Cament delivery to silo (with baghouse)	1.67E-07	7.29E-07	1.91E-08	8.36E-08	1.91E-08	8.36E-08	1.14E-06	4.34E-05	4.60E-08	2.01E-05	1.64E-06	7.19E-06	4.64E-04	2.03E-03	ND	ND	2.28E-07
Dement supplement delivery to Silo (with backouse)	5.84E-08	2.56E-05	5.28E-07	2.31E-08	1.16E-07	5.06E-07	7.12E-08	3.12E-05	1.50E-08	6.55E-06	1.33E-05	5.83E-05	2.07E-05	9.06E-05	4.23E-07	1.85E-06	2.14E-06
Truck Loadout (NO baghouse)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00 E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sources Total	1.65E-05	7.22E-05	6.47E-07	2.40E-06	6.87E-07	2.92E-06	7.23E-06	3.55E-04	2.77E-03	1.21E-02	1.63E-04	7.14E-04	1.40E-03	6.11E-03	4.23E-07	1.85E-06	1.60E-05
DAPA Screening EL (lb/hr)	1.50E-06		2.80E-05		3.70E-06		3.30E-02		3.33E-01		2.70E-05		7.00E-03		1.30E-02		5.60E-07
EXCEEDS EL?	Yes		No		No		No		No	 	Yes		No		No		Yes

1.94E-02 Tone per year

CONTROLLED T	AP EMISSIONS	<u> </u>	Note: Inc	ludes bagh	ouses as proc	ess equipr	nent.		2,400	cy/day, али	<u> </u>	400,000	cy/year				
# to # to	Arsen	ilc	Bery	llium	Cadm	nium Chromit		nium	Mangan	Manganese		Nickel		horus	Selenium		Chromium VI
Emissions Point	lb/hr ennuel avg.	T/yr ⁴	(b/hr ennua) avg.	Ttyr	lb/hr annual avg.	T/yr	lb/hr 24-hr avg.	T/yr ⁸	lb/hr 24-hr avg.	T/yr	ib/hr annual avg.	T/yr	lb/hr 24-hr avg.	T/yr	lb/hr 24-hr evg.	T/yr	lb/hr ennual evg.
Cement delivery to allo with baghouse) ¹	4.75E-08	2.08E-07	5.45E-09	2.39E-08	5,45E-09	2.39E-08	7.12E-07	1.42E-06	2.87E-06	5.74E-06	4.69E-07	2.05E-06	ND	ND	ND	ND	6.50E-08
Cament supplement delivery to Silo (with baghouse)2	1.67E-06	7.30E-06	1.51E-07	6.60E-07	3.30E-08	1.45E-07	3.00E-05	8.91E-06	6.28E-06	1.87E-08	3.80E-06	1.66E-05	8.69E-05	2.58E-05	2.64E-07	5.29E-07	6.10E-07
Truck Loadout (with baghouse)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sources Total	4.70E-06	2.06E-05	1.56E-07	6.84E-07	1.90€-07	8.34E-07	7.07E-05	9.04E-05	1.73E-03	3.46E-03	4.85E-05	2,04E-04	6.57E-04	1.17E-03	2.64E-07	5.29E-07	4.57E-06
IDAPA Screening EL (lb/hr)	1.50E-06		2.80E-05		3.70E-06		3.30E-02		3.33E-01		2.70E-05		7.00E-03		1.30E-02		5.60E-07
Percent of EL	313.44%		0.56%		5.15%		0.21%		0.5210%		172.24%		9.38%		0.0020%		815,83%
EXCEEDS EL?	Yes		No	I.	No		No		No		Yes		No		No		Yes

b/hr, annual average = EF x pound of cement / Yd* of concrete x annual concrete production rate / 2000/b/Ton / 8760 hr/yr, lb/hr, 24-hr = EF x pound of cement / Yd3 of concrete x daily concrete production rate / 2000/b/Ton / 24 hr/day

2 lb/hr, annual average = EF x pound of cement supplement / Yd3 of concrete x annual concrete production rate / 2000lb/Ton / 8760 hr/yr, lb/hr, 24-hr average = EF x pound of cement supplement / Yd3 of concrete x daily concrete production rate / 2000lb/Ton

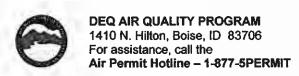
Infin; annual average = EF x pound of (cement + cement supplement) / Yd3 of concrete x daily concrete production rate / 2000ib/Ton / 8760 hr/yr; lb/hr, 24-hr average = EF x pound of (cement + cement supplement) / Yd3 of concrete x daily concrete production

4 T/yr = Ib/hr, annual avg x 8760 hr/yr x (1T/2000 lb)

5 T/yr = EF x pound of cament, or cament supplement, or cament + cament supplement x annual concrete production rate /2000 (b/ton / 2000 lb/ton

99.90% Baghouse control

4.94E-03 Tons per year



AIR PERMIT APPLICATION

Revision 5 09/08/08

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

	IDENTIFICATIO	N	
1. Company Name:	2. Facility Name	5.	3. Facility ID No.:
Clements Concrete Company INC	Notus		73-2005
4. <u>Brief Project Description:</u> of a 1979 Ro Canyon Cty	ss Rustler	160 Portable Cement	Plant in
APPLIC	ABILITY DETE	RMINATION	
5. Review <u>current federal regulations</u> and identify federegulations that apply or appear to apply to the facilist applicable regulations below in items 6-8.		X☐ The facility is not subject to regulations. If you checked the now complete. ☐ Federal regulation(s) applies. item 6.	is box, the form is
6. List applicable subpart(s) of the New Source Performance Standards (NSPS) (40 CFR part 60).	ormance	List of applicable subpart(s): Not applicable.	
7. List applicable subpart(s) of the National Emission Hazardous Air Pollutants for Source Categories (National Maximum Achievable Control Technology (In 40 CFR part 63.	ESHAP), also	List of applicable subpart(s):	
8. List applicable subpart(s) of the National Emission Hazardous Air Pollutants (NESHAP) found in 40 C		List of applicable subpart(s):	
For each subpart identified above, conduct a companalysis.	plete regulatory	Regulatory analysis complete Not applicable. Explain why:	·.
10. Will this facility be subject to compliance assurar (CAM) (40 CFR 64) as a result of this permitting a		NO, the facility is not subject of this permitting action. Plea	
·		YES If yes, please fill out I	DEQ Form CAM.
11. List applicable part(s) and subpart(s) of other fed regulations that are not included in items 7 through 9 a complete regulatory analysis.		List of all applicable part(s) and s	subpart(s):
IF YOU ARE UNSURE HOW TO ANSWER ANY	OF THESE QUE		OTLINE AT



IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

1410 North Hilton Boise, Idaho 83706-1253

		RECI	<u>EIPT</u>	121:	2/08
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RECEIVED FROM	Clem	ents C	oncrete	Co.	
SOURCE			nday [] No		
Cash	Check 🔼	Money U	rder No.	AMOU	NT OF PAYMENT
DESCRIPTION				AWOO	1000 00
Fac.	ID (001001	84 Roise	JD	
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RECEIVED-BY	1		TOTAL		1000 00
PID	OBS	CA	SUB-OBJ	WP	8E

Nº 82914